



Certificate of Analysis

Number: 6030-21030021-003A

Artesia Laboratory
200 E Main St.
Artesia, NM 88210
Phone 575-746-3481

Redwood
Redwood
4910 N. Midkiff Rd.
Midland, TX 79705

Mar. 02, 2021

Station Name: Terry Battery
Station Number: 5420023
Station Location: Redwood
Sample Point: Meter Run
Instrument: 70104251 (Inficon GC-MicroFusion)
Last Inst. Cal.: 02/22/2021 0:00 AM
Analyzed: 03/02/2021 09:17:08 by KNF

Sampled By: Cameron Rivera
Sample Of: Gas Spot
Sample Date: 02/26/2021 02:45
Sample Conditions: 52.22 psig, @ 89.4 °F Ambient: 65 °F
Effective Date: 02/26/2021 02:45
Method: GPA-2261M
Cylinder No: 5030-03336

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.696 psia		
Nitrogen	1.694	1.70050	1.988		GPM TOTAL C2+	8.198
Methane	67.587	67.86199	45.440		GPM TOTAL C3+	4.128
Carbon Dioxide	1.797	1.80442	3.314		GPM TOTAL IC5+	0.874
Ethane	15.125	15.18663	19.060	4.070		
Propane	7.838	7.86994	14.484	2.173		
Iso-butane	1.007	1.01080	2.452	0.331		
n-Butane	2.366	2.37544	5.763	0.750		
Iso-pentane	0.582	0.58447	1.760	0.214		
n-Pentane	0.575	0.57704	1.738	0.210		
Hexanes Plus	1.025	1.02877	4.001	0.450		
	99.596	100.00000	100.000	8.198		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8308	3.2176
Calculated Molecular Weight	23.96	93.19
Compressibility Factor	0.9954	
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.696 psia & 60°F		
Real Gas Dry BTU	1368	5129
Water Sat. Gas Base BTU	1345	5040
Ideal, Gross HV - Dry at 14.696 psia	1361.8	5129.2
Ideal, Gross HV - Wet	1338.1	5039.7

Comments: H2S Field Content 1.4 %
Mcf/day 179.07

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

TERRY 14C CTB																				
Location		32.75523 -104.33459																		
Meter Type	Prod Date	Entry Date	Disposition	Product	UOM	Volume	Vol Rate	Energy Factor	Energy	Flow Temp	Gas Gravity	Base Temp	Base Press	Flow Press	Run Hours	Meter Begin	Meter End	Begin Date	End Date	Last Updated
FLARE	7/21/2021	7/22/2021	FLARE	GAS	MCF	1129	1129	1	1129	67	0.6	60	14.73	0	24	38,976	40,105	7/21/2021 0:00	7/21/2021 0:00	TJRODRIGUEZ
FLARE	7/20/2021	7/21/2021	FLARE	GAS	MCF	972	972	1	975	67	0.6	60	14.73	0	24	38,004	38,976	7/20/2021 0:00	7/20/2021 0:00	TJRODRIGUEZ

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 37961

QUESTIONS

Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 88211370	OGRID: 330211
	Action Number: 37961
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**Determination of Reporting Requirements**

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was or is this venting or flaring caused by an emergency or malfunction	No
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a notification of a major venting or flaring	Yes, major venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.29.7 NMAC	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting or flaring result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No

Unregistered Facility Site

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	Terry 14C CTB
Facility Type	Tank Battery - (TB)

Equipment Involved

Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	68
Nitrogen (N2) percentage, if greater than one percent	2
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	2
Oxygen (O2) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	07/20/2021
Time venting or flaring was discovered or commenced	05:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/22/2021
Time venting or flaring was terminated	11:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	42
Longest duration of cumulative hours within any 24-hour period during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Midstream Scheduled Maintenance Pipeline (Any) Natural Gas Flared Spilled: 2,101 Mcf Recovered: 0 Mcf Lost: 2,101 Mcf]
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity

Was or is this venting or flaring a result of downstream activity	Not answered.
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting or flaring	Not answered.

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	False
Please explain reason for why this event was beyond your operator's control	Not answered.
Steps taken to limit the duration and magnitude of venting or flaring	During flaring Redwood only flares newer/higher oil production wells and shut in all smaller/older production
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Flaring was caused from DCP needing Redwood to curtail production to repair and maintenance, unfortunately the only thing we can do is continue communication with the Midstream Operator.

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CONDITIONS

Action 37961

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Operator: Redwood Operating LLC PO Box 1370 Artesia, NM 882111370	OGRID: 330211
	Action Number: 37961
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/26/2021